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28. (New) A gene expression library, comprising a pool of expression constructs, each expression construct comprising a vector containing one or more cDNA or genomic DNA fragments, wherein the cDNA or genomic DNA fragments in the pool of expression constructs are derived from a plurality of species of uncultured donor microorganisms, wherein the one or more cDNA or genomic DNA fragments in the vector which encode a pathway are derived from a single organism or wherein a cDNA or genomic DNA fragment which encode a single gene product includes nucleic acid from at least one organism, and wherein the cDNA or genomic DNA fragments are operably-associated with one or more regulatory regions that drives expression of genes encoded by the cDNA or genomic DNA fragments in an appropriate host organism.
29. (New) The method of claim 18, wherein the species of host organism into which the constructs are first transferred is an E.coli and wherein the host of another species to which the constructs are transferred second is a Streptomyces, Bacillus or a Salmonella species.
30. (New) The method of claim 11, wherein one of the host organisms is a Streptomyces a Bacillus or a Salmonella species.
31. (New) The method of claim 4, wherein the cDNA or genomic DNA encodes a gene product that induces the host organism to produce a host-specific molecule. --

REMARKS

Claims 1-3 have been cancelled without prejudice. New claims 4-31 have been added. No new matter has been added. Applicants respectfully request entry and consideration of this amendment.

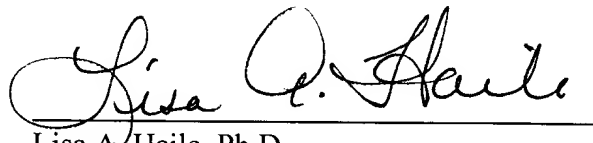
In re Application of:
Short, et al.
Serial No. 09/421,629
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PATENT
Attorney Docket No.: DIVER1260-3

If the Examiner would like to discuss any issues raised in this preliminary amendment, Applicant's representative can be reached at (858) 677-1456. The Commissioner is hereby authorized to charge the TOTAL FEE of \$273.00 and any associated fees, or credit any overpayments, to Deposit Account No. 07-1895. A duplicate copy of the Transmittal Sheet is enclosed.

Respectfully submitted,

Date: 12/23/99



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